AMENDMENTS TO THE CLAIMS

Please substitute the following claims for the pending claims with the same numbers respectively:

Claim 1 (Currently amended): An aerosol particle charging device comprising:

a chamber;

an inlet duct which flows gas including aerosol particles to be processed into said chamber;

a outlet duct which exhausts the processed aerosols from said chamber; and

an X-ray emitting section which is arranged in the vicinity of said inlet duct facing said chamber and emits an X-ray having a main wavelength within a range of 0.13 nm to 2 nm.

Claim 2 (Currently amended): [[An]] The aerosol particle charging device according to claim 1, wherein said X-ray emitting section includes a ~~power~~ powered switch ~~which controls~~ to control the amount of or to stop the emission ~~and stop~~ of the X-ray.

Claim 3 (Currently amended): An aerosol particle charging device comprising:

a chamber;

an electric field generation section which includes electrode plates arranged on both surfaces facing each other of said chamber and generates an electric field from an irradiating section to a non-irradiating section of an X-ray within said chamber;

an X-ray emitting section which is arranged facing ~~one region of~~ said chamber and emits an X-ray to said irradiating section of said chamber having a main wavelength within a range of 0.13 nm to 2 nm;

~~an electric field generation section which includes electrode plates arranged on both surfaces facing each other of said chamber and generates an electric field from an irradiating section to a non-irradiating section of the X-ray within said chamber;~~

an inlet duct which is arranged in the X-ray non-irradiating section of said chamber and flows gas including aerosol particles to be processed into said chamber; and

a outlet duct which is arranged at a position facing said inlet duct of the X-ray non-irradiating section of said chamber and exhausts the processed aerosols from said chamber.

Claim 4 (Currently amended): [[An]] The aerosol particle charging device according to claim 3, wherein said X-ray emitting section includes a ~~power~~ powered switch ~~which controls~~ to control the amount of or to stop the emission ~~and stop~~ of the X-ray.

Please add the following new claims 5-10 as follows:

Claim 5 (New): The aerosol particle charging deice according to claim 1, further comprising a rectifying plate which is arranged in the vicinity of said outlet duct in said chamber, having a plurality of openings for rectifying air flow in said chamber.

Claim 6 (New): The aerosol particle charging device according to claim 4, wherein said inlet and outlet duct face each other.

Claim 7 (New): The aerosol particle charging device according to claim 4, wherein said electric field generation section comprises a direct current high voltage power source.

Claim 8 (New): An aerosol particle charging device comprising:

a chamber;

an inlet duct which flows gas including aerosol particles to be processed into said chamber;

a outlet duct which exhausts the processed aerosols from said chamber; and

an X-ray emitting section which is arranged closer to said inlet duct than said outlet duct, said X-ray emitting section facing said chamber and emits an X-ray having a main wavelength within a range of 0.13 nm to 2 nm.

Claim 9 (New): The aerosol particle charging device according to claim 8, wherein said X-ray emitting section includes a powered switch to control the amount of or to stop the emission of the X-ray.

Claim 10 (New): The aerosol particle charging deice according to claim 8, further comprising a rectifying plate which is arranged in the vicinity of said outlet duct in said chamber, having a plurality of openings for rectifying air flow in said chamber.